

1 ABSTRACT

2 A modular human habitat simulator for providing
3 an environment on Earth that approximates, in a
4 controlled test situation, a number of conditions
5 expected to exist when an inflatable modular habitat
6 is deployed into Earth orbit. The simulator has a
7 housing with a rigid wall defining an internal volume,
8 a longitudinal axis, a first and second opposing
9 openings along the longitudinal axis, the rigid wall
10 having an exterior surface, and an interior surface
11 where the interior surface is generally the shape of
12 an interior surface of a deployed inflatable shell of
13 a modular human habitat, and the internal volume is
14 substantially that of a deployed inflatable modular
15 human habitat volume.